

Angeles Marin Batana

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EDUCATION

Ball State University

B.S Computer Science; B.S Spanish; Minor in Sociology

- GPA: 3.5/4.0
- Honors: Departmental Honors in Computer Science; Dean’s List
- Concentrations: Data Analytics and Machine Learning; Language and Culture Studies

May 2025

Muncie, IN

WORK EXPERIENCE

Artificial Intelligence and Cybersecurity Research Assistant

Oct. 2024 – Present

Ball State University

Muncie, IN

- Collaborating on a peer-reviewed paper for RE’25 (IEEE RE Conference).
- Building RAG pipelines using Python, OpenAI API, and ChromaDB to improve threat detection.
- Developing LLM-based framework for security requirement generation using CVE/NVD datasets and structured outputs for asset-threat mapping.
- Designed visualizations to effectively communicate with faculty and undergraduate researchers in weekly meetings to iterate on methodology, data quality, and model performance.
- Tech Stack: Python · OpenAI API (GPT-4) · ChromaDB · Transformer Models (BERT, RAG) · CVE Datasets · Pandas · LangChain · Markdown/LaTeX

Big Data Analytics and Machine Learning Researcher

May. 2024 – Jul. 2024

North Dakota State University

Fargo, ND; Santiago, Chile

- Researched scalable ML using swarm intelligence algorithms (Bat Algorithm) & Apache Spark.
- Implemented Bat Algorithm variants to optimize classification tasks by distributing either input data or swarm particles across cores.
- Evaluated performance across 7 core configurations (2–64 cores) and 10 dataset sizes (200-2000), using speedup and scaleup metrics to analyze computational efficiency.
- Presented findings at Universidad de Chile – Escuela de Ingeniería y Ciencias, highlighting scalability strategies for real-world machine learning applications.
- Tech Stack: Python · Apache Spark · Jupyter Notebooks · Git · RDDs · Matplotlib · NumPy · Pandas

UX/ UI Researcher | Junior Project Manager

Sept. 2023 – May 2025

The Digital Corps | Ball State University

Muncie, IN

- Led and collaborated with cross-functional teams and university-wide clients and created user-centered UX/UI solutions supporting digital transformation initiatives.
- Conducted user interviews, created wireframes, mapped user journeys, and designed user flows to enhance usability and meet client needs.
- Presented design proposals and creative solutions to stakeholders, demonstrating strong communication skills and an ability to align design decisions with project goals.

IT Operations Intern

May 2023 – Aug 2023

Magna International

Muncie, IN

- Provided technical support by troubleshooting, hardware, and software, and configured computers for 100+ end-users on Windows 10, contributing to efficient IT operations and ensuring systems were fully functional.
- Leveraged QuickBase and PowerBI to analyze and visualize company-wide to understand company efficiency initiatives.

TECHNOLOGIES & CERTIFICATIONS

- Technologies:
 - Programming Languages: Python · Java · JavaScript · R · Swift · Ruby · C
 - AI/ Data Science & ML Tools: OpenAI API · LangChain · NotebookLM · ChromaDB · PyTorch · Scikit-learn · Apache Spark · Pandas · NumPy
 - Tools: Jupyter · GitHub · Docker · Firebase · Amazon S3 · PostgreSQL
- Certifications:
 - DataCamp: Generative AI Concepts, Explainable Artificial Intelligence (XAI) Concepts, AI Security and Risk Management
 - CITI: Biomedical Responsible Conduct of Research, IUEHS Biosafety Training, NIH Recombinant DNA Guidelines